

FORM PTO-1390 (Modified)  
 (REV. 01-2003)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

62012-1210

U.S. APPLICATION NO. (IF KNOWN)

10/579009

TRANSMITTAL LETTER TO THE UNITED STATES  
 DESIGNATED/ELECTED OFFICE (DO/EO/US)  
 CONCERNING A FILING UNDER 35 U.S.C. 371

INTERNATIONAL APPLICATION NO.  
 PCT/US2004/038021

INTERNATIONAL FILING DATE  
 15 November 2004 (15/11/2004)

PRIORITY DATE CLAIMED  
 13 November 2003 (13/11/2003)

TITLE OF INVENTION

DETECTION SYSTEMS AND METHODS

APPLICANT(S) FOR DO/EO/US:

Hunt, et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). (**Unexecuted**)
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 32.8 and 3.31 is included.
15. ☐ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☒ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13<sup>ter</sup>.2 and 37 CFR 1.821-1.825.
20. ☐ A second copy of the published international application under 35 U.S.C. 1.54(d)(4).
21. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
22. ☐ Express Mail Label No. **EL 992703719 US**

U.S. APPLICATION NO. <b>107379009</b>		INTERNATIONAL APPLICATION NO. PCT/US2004/038021		ATTORNEY'S DOCKET NO.:	
23. Other items or information:					
<b>Certificate of Mailing; Return postcard; Notification of Application As Published or Republished WO 2005/050164 A2 and WO 2005/050164 A3</b>					
The following fees are submitted:				CALCULATIONS ONLY	PTO USE ONLY
24.	<input checked="" type="checkbox"/>	Basic national fee (37 CFR 1.492 (a)).....	\$300	\$300	
25.	<input checked="" type="checkbox"/>	Examination Fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)	\$0	\$	
		All other situations.....	\$200	\$200	
26.	<input checked="" type="checkbox"/>	Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....	\$0	\$	
		Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority	\$100	\$100	
		International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.....	\$400	\$	
		All other situations.....	\$600	\$	
TOTAL OF 21, 22 and 23 =				\$600	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821© or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.				\$	
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
-100=	/50=		x\$250	\$0	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national state (37 CFR 1.492(h)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	1- 20 =		x \$50	\$0	
Independent claims	1- 3 =		x \$200	\$0	
Multiple Dependent Claims (check if applicable).			+ \$360	\$	
TOTAL OF ABOVE CALCULATIONS =				\$600	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$300	
SUBTOTAL =				\$300	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$	
TOTAL NATIONAL FEE =				\$300	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) \$40.00 per property				\$	
TOTAL FEES INCLOSED =				\$300	
				Amount to be: refunded	\$
				Amount to be charged	\$

10/579009

AP20 Rec'd PCT/PTO 11 MAY 2006

- a. ☐ A check in the amount of \_\_\_\_\_ to cover the above fees is enclose.
- b. ☒ Please charge my Deposit Account No. 20-0778 in the amount of \$300 to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 20-0778. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Heather C. Gorman  
Thomas, Kayden, Horstemeyer  
& RISLEY, L.L.P.  
100 Galleria Parkway, Suite 1750  
Atlanta, Georgia 30339

  
Signature

Heather C. Gorman  
Name

42,389  
Registration Number

5/11/2006  
Date

10/579008

AP20 Rec'd PCT/PTO 11 MAY 2006

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: **Hunt, et al.**

For: **DETECTION SYSTEMS AND METHODS**

Our Docket No: **62012-1210**

**CERTIFICATE OF EXPRESS MAIL**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed for filing in the above case are the following documents:

Return Postcard  
Transmittal Letter to the US Designated Office  
(DO/EO/US) Concerning a Filing Under 35 U.S.C. 371  
(3 Pages)  
Substitute Specification  
22 pages description  
1 page claims  
1 page abstract  
Combined Declaration and Power of Attorney (Unexecuted)  
Copy of International Application as filed  
Copy of Published International Application WO 2005/050164 A2  
dated 2 June 2005  
Copy of Published International Application WO 2005/050164 A3  
dated 11 August 2005  
International Search Report and Written Opinion dated 16 June 2005  
Information Disclosure Statement with Cited References

Further, the Commissioner is authorized to charge Deposit Account No. 20-0778 for any additional fees required. The Commissioner is requested to credit any excess fee paid to Deposit Account No. 20-0778.

I hereby certify that all correspondence listed above are being deposited for delivery to the above addressee, with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 CFR §1.10 on the date indicated below:

The envelope has been given U.S. Postal Service "Express Mail Post Office To Addressee" Package # EL 992703719 US.

Date: 5/11/2006

Laurie Delesandro  
Laurie Delesandro

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# TRANSMITTAL LETTER TO THE UNITED STATES RECEIVING OFFICE

Express Mail mailing number:	EL992704201US	Date of Deposit:	15 November 2004
File reference no.:	062002-2910	International Application no. (if known):	
Title of the invention: <b>Detection Systems and Methods</b>			
Earliest priority date claimed (Day/Month/Year):		13 November 2003	

☒ This is a new International Application

## SCREENING DISCLOSURE INFORMATION:

In order to assist in screening the accompanying international application for purposes of determining whether a license for foreign transmittal should and could be granted and for other purposes, the following information is supplied. (check as many boxes as apply):

- ☐ The invention disclosed was **not** made in the United States of America.
- ☐ There is no prior U.S. application relating to this invention.
- ☒ The following prior U.S. application(s) contain subject matter which is related to the invention disclosed in the attached international application. (NOTE: priority to these applications may or may not be claimed on the Request (form PCT/RO/101) and this listing does not constitute a claim for priority.)

application no.	60/519,800	filed on	13 November 2003
application no.		filed on	

- ☐ The present international application contains additional subject matter not found in the prior U.S. application(s) identified above. The additional subject matter is found on pages \_\_\_\_\_ and ☐ DOES NOT ALTER ☐ MIGHT BE CONSIDERED TO ALTER the general nature of the invention manner which would require the U.S. application to have been made available for inspection by the appropriate defense agencies under 35 U.S.C. 181 and 37 CFR 5.15.

## Itemized list of contents

Sheets of Request form:	4	Check no.:	
Sheets of description (excluding sequence listing):	22	Return receipt postcard:	yes
Sheets of claims:	11 (1-82)	Power of attorney:	no
Sheets of abstract:	1	Certified copy of priority document (specify):	ordered through USPTO
Sheets of drawings:	7 (1-7)	Other (specify):	Certificate of Mailing
Sheets of sequence listing:	0		
Sequence listing diskette/CD:	0		
Tables related to sequence listing CD:	0		

The person signing this form is the:

- ☐ Applicant
- ☒ Attorney/Agent (Reg. No.)  
45,315
- ☐ Common Representative

Charles Vorndran, Ph.D.

Name of person signing

Signature

*Charles Vorndran*

This collection of thinformation is required by 37 CFR 1.10 and 1.412. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.